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APPLICATION NO.	FILING	DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/928,441	08/14/	2001	Kazuhiko Tokuda	000958A	8352	
23850	7590 09/07/2004			EXAMINER		
	ARMSTRONG, KRATZ, QUINTOS, HANSON & BROOKS, LLP 1725 K STREET, NW				CHANG, RICK KILTAE	
	SUITE 1000			ART UNIT	PAPER NUMBER	
WASHING	ON, DC 200	06		3729		

DATE MAILED: 09/07/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary Examiner Rick K. Chang The MAILING DATE of this communication appears on the cover sheet with the correspondence address of the Statutory Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.	ess
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THE MAILING DATE OF THIS COMMUNICATION.	unication.
 Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). 	
Status	
1) Responsive to communication(s) filed on 21 July 2004.	
2a)⊠ This action is FINAL . 2b)□ This action is non-final.	
3) Since this application is in condition for allowance except for formal matters, prosecution as to the m	erits is
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.	
Disposition of Claims	
4)⊠ Claim(s) <u>33-38</u> is/are pending in the application.	
4a) Of the above claim(s) <u>33-36</u> is/are withdrawn from consideration.	
5) Claim(s) is/are allowed.	
6)⊠ Claim(s) <u>37-38</u> is/are rejected.	
7) Claim(s) is/are objected to.	
8) Claim(s) are subject to restriction and/or election requirement.	
Application Papers	
9)☐ The specification is objected to by the Examiner.	
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.	
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).	
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR	121(d)
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-	
Priority under 35 U.S.C. § 119	
<u> </u>	
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:	
,	
1. ☐ Certified copies of the priority documents have been received.	
2. Certified copies of the priority documents have been received in Application No	
3. Copies of the certified copies of the priority documents have been received in this National Sta	ge
application from the International Bureau (PCT Rule 17.2(a)).	
* See the attached detailed Office action for a list of the certified copies not received.	
Attachment(s)	
) Undice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date	
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 5) Notice of Informal Patent Application (PTO-15)	2)
Paper No(s)/Mail Date 6) ☐ Other:	
i. Patent and Trademark Office FOL-326 (Rev. 1-04) Office Action Summary Part of Paper No./Mail Date 0	8312004

DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 37-38 are rejected under 35 U.S.C. 103(a) as being unpatentable over Barber (US 4,701,363) in view of Seo et al (US 5,757,069).

Barber discloses in Fig. 7 of etching to form depressions 25 on leads. Fig. 9 shows the first portion 43 is planar but the planar surface does not completely across the first portion to join the side walls. Barber inherently discloses in Fig. 7 that the air-gap between the leads reduce cross-talk since air has very low dielectric constant.

Seo discloses in Fig. 2 etching 12 form a planar surface 15 completely across to join the side walls.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Barber by etching the lead to form a planar surface completely across to join the side walls, as taught by Seo, for the purpose of eliminating the height difference and uniformly distribute the pressing force during bonding process.

Response to Arguments

3. Applicant's arguments have been fully considered but they are not persuasive.

To the contrary, Barber (US 4,701,363) and Seo et al (US 5,757,069) both deal with electronic devices that conduct electricity using leads to reduce cross-talk by having air-gaps.

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In response to applicant's argument that the references fail to show certain features of applicant's invention, it is noted that the features upon which applicant relies (i.e., a high-density printed circuit board) are not recited in the rejected claim(s). Although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims. See In re Van Geuns, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993).

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The claims lack positive manipulative step(s) to reduce cross-talk.

Interviews After Final

4. Applicant note that an interview after a final rejection must be submitted briefly in writing the intended purpose and content of the interview (the agenda of the interview must be in writing). Upon review of the agenda, the Examiner may grant the interview if the examiner is convinced that disposal or clarification for appeal may be accomplished with only nominal further consideration. Interviews merely to restate arguments of record or to discuss new limitations will be denied. See MPEP 714.13 and 713.09.

Conclusion

5. Please provide reference numerals (either in parentheses next to the claimed limitation or in a table format with one column listing the claimed limitation and another column listing corresponding reference numerals in the remark section of the response to the Office Action) to all the claimed limitations as well as support in the disclosure for better clarity (optional). Applicants are duly reminded that a full and proper response to this Office Action that includes any amendment to the claims and specification of the application as originally filed requires that the applicant point out the support for any

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amendment made to the disclosure, including the claims. See 37 CFR 1.111 and MPEP 2163.06.

6. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Rick K. Chang whose telephone number is (703) 308-4784. The examiner can normally be reached on 5:30 AM to 1:30 PM, Monday through Thursday.

The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9302 for regular communications and (703) 872-9303 for After Final communications.

RICHARD CHANG PRIMARY EXAMINER Application/Control Number: 09/928,441

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August 31, 2004